

Peak Discharge Estimates (To Alpine Road - 0.36 Square Miles)					
Return Period	USGS Urban 96-4084 (Piedmont)	USGS Urban 2014-5030 (Piedmont)	TR-55	*Interpolated for DA From FEMA Discharges	FEMA Effective FIS Discharges (0.5 SqMi.)
(Year)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
10	339 ** (340)	288	870	693	754
25 (Design)	511 ** (500)	330	1070	820	N/A
50	588 ** (600)	358	1229	926	989
100	662 ** (650)	387	1388	1057	1125
500	1241 ** (1200)	454	1771	1388	1463

Table 1. Discharge Methodology Comparison

*Peak Discharges interpolated for verified 0.36 sqmi. drainage area from Effective FEMA discharges.

**Peak Discharges rounded per NCDOT discharge rounding memo, dated 1988. Rounded discharges in parentheses used in model.